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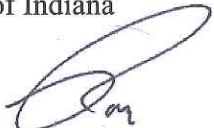
February 10, 2009

FEB 10 2009

UIC BRANCH  
EPA REGION 5

**MEMORANDUM**

To: Service List (attached)  
USEPA, Underground Injection Control Branch (WU-16J)  
Alan Tenenbaum, U.S. Department of Justice  
Mary Ann Habeeb, State of Indiana

From: Ronald E. Hutchens, P.E. 

Subject: Progress Report No. 201  
January 1 through January 31, 2009  
Remedial Design/Remedial Action  
Midco I and II Sites, Gary, Indiana

**PROGRESS TOWARD IMPLEMENTING THE CONSENT DECREE**

- Continued operation of the Midco I and II Sites' ground water extraction and treatment systems (GWETS) and injection of treated ground water.
- Continued operation of the Midco I Soil Vapor Extraction (SVE) system.
- Continued operation of the Midco II Soil Vapor Extraction/Air Sparge (SVE/AS) system.
- Collection of the monthly effluent samples from the Midco I and II Sites' ground water treatment systems (GWTS) on January 22, 2009.

**MIDCO DEEP INJECTION WELL OPERATING CONDITIONS**

- The daily maximum injection pressure, sight glass levels, and minimum differential between injection pressure and annulus pressure are summarized in Table 1. The operating flow rates at the Midco I and Midco II Sites' GWTS are presented on Figures 1 and 2, respectively. The daily maximum injection pressures and flow rates are presented on Figure 3. The daily sight glass levels are shown on Figure 4.
- Total volume of treated water injected:

|               | Midco I Site | Midco II Site | Deep Well Site |
|---------------|--------------|---------------|----------------|
| January       | 1,197,999    | 2,004,801     | 3,202,800      |
| Year-to-Date  | 14,831,689   | 25,076,411    | 39,908,100     |
| Total-to-Date | 146,478,574  | 216,173,626   | 362,652,200    |

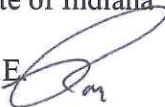
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March 9, 2009

MAR 10 2009

UIC BRANCH  
EPA REGION 5**MEMORANDUM**

To: Service List (attached)  
USEPA, Underground Injection Control Branch (WU-16J)  
Alan Tenenbaum, U.S. Department of Justice  
Mary Ann Habeeb, State of Indiana

From: Ronald E. Hutchens, P.E. 

Subject: Progress Report No. 202  
February 1 through February 28, 2009  
Remedial Design/Remedial Action  
Midco I and II Sites, Gary, Indiana

**PROGRESS TOWARD IMPLEMENTING THE CONSENT DECREE**

- Continued operation of the Midco I and II Sites' ground water extraction and treatment systems (GWETS) and injection of treated ground water.
- Continued operation of the Midco I Soil Vapor Extraction (SVE) system.
- Continued operation of the Midco II Soil Vapor Extraction/Air Sparge (SVE/AS) system.
- Receipt of an email transmittal from Richard Boice, USEPA to Barbara Coughlin, ENVIRON, dated February 18, 2009, transmitting letter from IDEM regarding the Midco II Quarterly Operations, Maintenance, Monitoring, and Closure (OMM&C) Progress Report No. 11.
- Collection of the monthly effluent samples from the Midco I and II Sites' ground water treatment systems (GWTS) on February 24, 2009.

**MIDCO DEEP INJECTION WELL OPERATING CONDITIONS**

- The daily maximum injection pressure, sight glass levels, and minimum differential between injection pressure and annulus pressure are summarized in Table 1. The operating flow rates at the Midco I and Midco II Sites' GWTS are presented on Figures 1 and 2, respectively. The daily maximum injection pressures and flow rates are presented on Figure 3. The daily sight glass levels are shown on Figure 4.

- Total volume of treated water injected:

|               | Midco I Site | Midco II Site | Deep Well Site |
|---------------|--------------|---------------|----------------|
| February      | 1,284,865    | 1,961,935     | 3,246,800      |
| Year-to-Date  | 16,116,554   | 27,038,346    | 43,154,900     |
| Total-to-Date | 147,763,439  | 218,135,561   | 365,899,000    |

- Annulus system fluid removals - None
- Annulus system fluid additions - None
- Noncompliance occurrences - None

#### SYSTEM SHUTDOWNS

- Details of the Midco I and Midco II Sites' non-GWETS-related shutdowns, and the scheduled and non-scheduled GWETS-related shutdowns are summarized in Table 2.
- The Midco I Site had no non-GWETS-related shutdowns. The Midco II Site had one non-GWETS-related shutdown. A power failure occurred on February 19, 2009 at 5:20 a.m. for 270 minutes.

#### SAMPLING AND TEST RESULTS

- Analytical data for the December 2008 and January 2009 sampling events are presented in Tables 3 through 12. The data validation reports for these samples were received from the data validator on February 9 and 27, 2009, respectively.

#### PLANS AND PROCEDURES COMPLETED UNDER THE RD/RA PROJECT PLAN

- None during this reporting period.

#### ACTIVITIES TO BE CONDUCTED DURING MARCH 2009

- Continue operation of the Midco I and II Sites' GWETS and injection of treated ground water.
- Continue operation of the Midco I SVE system.
- Continue operation of the Midco II SVE/AS system.



April 9, 2009

**MEMORANDUM**

To: Service List (attached)  
USEPA, Underground Injection Control Branch (WU-16J)  
Alan Tenenbaum, U.S. Department of Justice  
Mary Ann Habeeb, State of Indiana

From: Ronald E. Hutchens, P.E. 

Subject: Progress Report No. 203  
March 1 through March 31, 2009  
Remedial Design/Remedial Action  
Midco I and II Sites, Gary, Indiana

**RECEIVED**

APR 10 2009

UIC BRANCH  
EPA REGION 5**PROGRESS TOWARD IMPLEMENTING THE CONSENT DECREE**

- Continued operation of the Midco I and II Sites' ground water extraction and treatment systems (GWETS) and injection of treated ground water.
- Continued operation of the Midco I soil vapor extraction (SVE) system.
- Continued operation of the Midco II soil vapor extraction/air sparge (SVE/AS) system.
- Receipt of an email transmittal from Richard Boice, USEPA, to Barbara Coughlin, ENVIRON, dated March 30, 2009, transmitting letter from IDEM regarding the Midco I Quarterly Operations, Maintenance, Monitoring, and Closure (OMM&C) Progress Report No. 11.
- Collection of the annual influent and effluent samples from the Midco I and II Sites' ground water treatment systems (GWTS) on March 10, 2009.

**MIDCO DEEP INJECTION WELL OPERATING CONDITIONS**

- The daily maximum injection pressure, sight glass levels, and minimum differential between injection pressure and annulus pressure are summarized in Table 1. The operating flow rates at the Midco I and Midco II Sites' GWTS are presented on Figures 1 and 2, respectively. The daily maximum injection pressures and flow rates are presented on Figure 3. The daily sight glass levels are shown on Figure 4.

- Total volume of treated water injected:

|               | Midco I Site | Midco II Site | Deep Well Site |
|---------------|--------------|---------------|----------------|
| March         | 1,336,002    | 2,297,598     | 3,633,600      |
| Year-to-Date  | 17,452,556   | 29,335,944    | 46,788,500     |
| Total-to-Date | 149,099,441  | 220,433,159   | 369,532,600    |

- Annulus system fluid removals - None
- Annulus system fluid additions - None
- Noncompliance occurrences - None

### SYSTEM SHUTDOWNS

- Details of the Midco I and Midco II Sites' non-GWETS-related shutdowns, and the scheduled and non-scheduled GWETS-related shutdowns are summarized in Table 2.
- The Midco I Site had two non-GWETS-related shutdowns. Power failures occurred on March 8, 2009 at 6:14 p.m. for 811 minutes and on March 29, 2009 at 10:05 a.m. for 1,340 minutes. The Midco II Site had four non-GWETS-related shutdowns. Power failures occurred on March 8, 2009 at 12:24 p.m. for 60 minutes, on March 8, 2009 at 6:14 p.m. for 949 minutes, on March 25, 2009 at 10:43 a.m. for 47 minutes, and on March 29, 2009 at 9:53 a.m. for 1,380 minutes.

### SAMPLING AND TEST RESULTS

- Analytical data for the February 2009 sampling events are presented in Tables 3 and 4. The data validation reports for these samples were received from the data validator on March 23, 2009. In the February 2009 sample, the trichloroethene (TCE) concentration in the Midco I effluent was 33 micrograms per liter (ug/L), which is above the maximum allowable concentration (MAC) of 31.5 ug/L. TCE was detected in the Midco II effluent at an estimated concentration of 2.3 ug/L and the TCE concentration was 14 ug/L in the combined effluent. An additional ultraviolet lamp was turned on at the Midco I GWTS on March 5, 2009 to increase treatment of the extracted ground water.

### PLANS AND PROCEDURES COMPLETED UNDER THE RD/RA PROJECT PLAN

- None during this reporting period.

### ACTIVITIES TO BE CONDUCTED DURING APRIL 2009

- Continue operation of the Midco I and II Sites' GWETS and injection of treated ground water.
- Continue operation of the Midco I SVE system.
- Continue operation of the Midco II SVE/AS system.

May 8, 2009

Sent via Electronic Mail

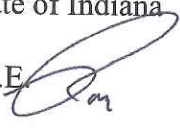
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MAY 11 2009

UIC BRANCH  
EPA REGION 5

**MEMORANDUM**

To: Service List (attached)  
USEPA, Underground Injection Control Branch (WU-16J)  
Alan Tenenbaum, U.S. Department of Justice  
Mary Ann Habeeb, State of Indiana

From: Ronald E. Hutchens, P.E. 

Subject: Progress Report No. 204  
April 1 through April 30, 2009  
Remedial Design/Remedial Action  
Midco I and II Sites, Gary, Indiana

**PROGRESS TOWARD IMPLEMENTING THE CONSENT DECREE**

- Continued operation of the Midco I and II Sites' ground water extraction and treatment systems (GWETS) and injection of treated ground water.
- Continued operation of the Midco I soil vapor extraction (SVE) system.
- Continued operation of the Midco II soil vapor extraction/air sparge (SVE/AS) system.
- Collection of the monthly effluent samples from the Midco I and II Sites' ground water treatment systems (GWTS) on April 7, 2009.
- Receipt of an email transmittal from Richard Boice, USEPA, to Barbara Coughlin, ENVIRON, dated April 27, 2009, transmitting letter from IDEM regarding the Midco II Quarterly Operations, Maintenance, Monitoring, and Closure (OMM&C) Progress Report No. 12.
- Submittal of a letter from Ronald Hutchens and Barbara Coughlin, ENVIRON to Richard Boice, USEPA, dated April 27, 2009 Re: Approval Request for Additional Analytical Laboratory.
- Submittal of the Annual OMM&C Report No. 3 for the Midco II SVE/AS system to the USEPA on April 30, 2009.

**MIDCO DEEP INJECTION WELL OPERATING CONDITIONS**

- The daily maximum injection pressure, sight glass levels, and minimum differential between injection pressure and annulus pressure are summarized in Table 1. The operating flow rates at the Midco I and Midco II Sites' GWTS are presented on Figures 1 and 2, respectively. The daily maximum injection pressures and flow rates are presented on Figure 3. The daily sight glass levels are shown on Figure 4.

- Total volume of treated water injected:

|               | Midco I Site | Midco II Site | Deep Well Site |
|---------------|--------------|---------------|----------------|
| April         | 1,265,425    | 1,478,875     | 2,744,300      |
| Year-to-Date  | 18,717,981   | 30,814,819    | 49,532,800     |
| Total-to-Date | 150,364,866  | 221,912,034   | 372,276,900    |

- Annulus system fluid removals - None
- Annulus system fluid additions - None
- Noncompliance occurrences - None

### SYSTEM SHUTDOWNS

- Details of the Midco I and Midco II Sites' non-GWETS-related shutdowns, and the scheduled and non-scheduled GWETS-related shutdowns are summarized in Table 2.
- The Midco I Site had one non-GWETS-related shutdown. A power failure occurred on April 23, 2009 at 10:40 p.m. for 520 minutes. The Midco II Site had two non-GWETS-related shutdowns. Power failures occurred on March 31, 2009 at 10:39 p.m. for 496 minutes and on April 23, 2009 at 10:40 p.m. for 510 minutes.

### SAMPLING AND TEST RESULTS

- Analytical data for the March 2009 annual sampling event are presented in Tables 3 through 10. The data validation report for these samples was received from the data validator on April 20, 2009. In the March 2009 sample, the trichloroethene (TCE) concentration in the Midco I effluent was 38 micrograms per liter (ug/L) and 36 ug/L field duplicate, which is above the maximum allowable concentration (MAC) of 31.5 ug/L. TCE was detected in the Midco II effluent at an estimated concentration of 2.2 ug/L and the TCE concentration was 7.2 ug/L in the combined effluent. The volatile organic compound (VOC) analytical data for the April 2009 sampling event are presented in Table 11.<sup>1</sup> In the April 2009 sampling event, the TCE concentration in the Midco I effluent (2.0 J ug/L) was below the MAC of 31.5 ug/L.

### PLANS AND PROCEDURES COMPLETED UNDER THE RD/RA PROJECT PLAN

- None during this reporting period.

### ACTIVITIES TO BE CONDUCTED DURING MAY 2009

- Continue operation of the Midco I and II Sites' GWETS and injection of treated ground water.
- Continue operation of the Midco I SVE system.
- Continue operation of the Midco II SVE/AS system.

<sup>1</sup> The validated data for the April 2009 sampling event will be presented in a subsequent monthly report.

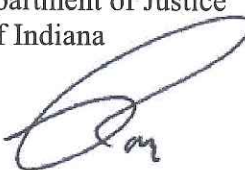


# ENVIRON

June 10, 2009

## MEMORANDUM

To: Service List (attached)  
USEPA, Underground Injection Control Branch (WU-16J)  
Alan Tenenbaum, U.S. Department of Justice  
Mary Ann Habeeb, State of Indiana

From: Ronald E. Hutchens, P.E. 

Subject: Progress Report No. 205  
May 1 through May 31, 2009  
Remedial Design/Remedial Action  
Midco I and II Sites, Gary, Indiana

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JUN 10 2009

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## PROGRESS TOWARD IMPLEMENTING THE CONSENT DECREE

- Continued operation of the Midco I and II Sites' ground water extraction and treatment systems (GWETS) and injection of treated ground water.
- Continued operation of the Midco I soil vapor extraction (SVE) system.
- Continued operation of the Midco II soil vapor extraction/air sparge (SVE/AS) system.
- Collection of the monthly effluent samples from the Midco I and II Sites' ground water treatment systems (GWTS) on May 13, 2009.
- Submittal of the Annual OMM&C Report No. 3 for the Midco I SVE system to the USEPA on May 19, 2009.
- Receipt of an email transmittal from Richard Boice, USEPA, to Barbara Coughlin, ENVIRON, dated May 20, 2009, transmitting a memorandum from Richard Byvik, USEPA providing comment on ENVIRON's request to add Shealy Environmental Services, Inc. to the list of analytical laboratories for the Midco project.

## MIDCO DEEP INJECTION WELL OPERATING CONDITIONS

- The daily maximum injection pressure, sight glass levels, and minimum differential between injection pressure and annulus pressure are summarized in Table 1. The operating flow rates at the Midco I and Midco II Sites' GWTS are presented on Figures 1 and 2, respectively. The daily maximum injection pressures and flow rates are presented on Figure 3. The daily sight glass levels are shown on Figure 4.



- Total volume of treated water injected:

|               | Midco I Site | Midco II Site | Deep Well Site |
|---------------|--------------|---------------|----------------|
| May           | 1,460,260    | 1,177,940     | 2,638,200      |
| Year-to-Date  | 20,178,241   | 31,992,759    | 52,171,000     |
| Total-to-Date | 151,825,126  | 223,089,974   | 374,915,100    |

- Annulus system fluid removals - None
- Annulus system fluid additions - None
- Noncompliance occurrences - None

### SYSTEM SHUTDOWNS

- Details of the Midco I and Midco II Sites' non-GWETS-related shutdowns, and the scheduled and non-scheduled GWETS-related shutdowns are summarized in Table 2.
- The Midco I Site had no non-GWETS-related shutdowns. The Midco II Site had two non-GWETS-related shutdowns. Power failures occurred on April 30, 2009 at 1:02 p.m. for 28 minutes and on May 13, 2009 at 10:54 p.m. for 492 minutes.

### SAMPLING AND TEST RESULTS

- Analytical data for the April 2009 monthly sampling event are presented in Tables 3 and 4. The data validation report for these samples was received from the data validator on May 4, 2009.

### PLANS AND PROCEDURES COMPLETED UNDER THE RD/RA PROJECT PLAN

- None during this reporting period.

### ACTIVITIES TO BE CONDUCTED DURING JUNE 2009

- Continue operation of the Midco I and II Sites' GWETS and injection of treated ground water.
- Continue operation of the Midco I SVE system.
- Continue operation of the Midco II SVE/AS system.

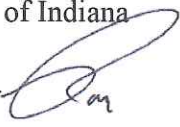
JUL 13 2009

UIC BRANCH  
EPA REGION 5

July 8, 2009

**MEMORANDUM**

To: Service List (attached)  
USEPA, Underground Injection Control Branch (WU-16J)  
Alan Tenenbaum, U.S. Department of Justice  
Mary Ann Habeeb, State of Indiana

From: Ronald E. Hutchens, P.E. 

Subject: Progress Report No. 206  
June 1 through June 30, 2009  
Remedial Design/Remedial Action  
Midco I and II Sites, Gary, Indiana

**PROGRESS TOWARD IMPLEMENTING THE CONSENT DECREE**

- Continued operation of the Midco I and II Sites' ground water extraction and treatment systems (GWETS) and injection of treated ground water.
- Continued operation of the Midco I soil vapor extraction (SVE) system.
- Continued operation of the Midco II soil vapor extraction/air sparge (SVE/AS) system.
- Collection of the quarterly influent and effluent samples from the Midco I and II Sites' ground water treatment systems (GWTS) on June 9, 2009.
- Submittal of letter from Ron Hutchens and Barbara Coughlin, ENVIRON, to Richard Boice, USEPA, dated June 1, 2009, providing responses to USEPA comments on ENVIRON's request to add Shealy Environmental Services, Inc. to the list of analytical laboratories for the Midco project.

**MIDCO DEEP INJECTION WELL OPERATING CONDITIONS**

- The daily maximum injection pressure, sight glass levels, and minimum differential between injection pressure and annulus pressure are summarized in Table 1. The operating flow rates at the Midco I and Midco II Sites' GWTS are presented on Figures 1 and 2, respectively. The daily maximum injection pressures and flow rates are presented on Figure 3. The daily sight glass levels are shown on Figure 4.

- Total volume of treated water injected:

|               | Midco I Site | Midco II Site | Deep Well Site |
|---------------|--------------|---------------|----------------|
| June          | 1,351,331    | 899,669       | 2,251,000      |
| Year-to-Date  | 21,529,572   | 32,892,428    | 54,422,000     |
| Total-to-Date | 153,176,457  | 223,989,643   | 377,166,100    |

- Annulus system fluid removals - None
- Annulus system fluid additions - None
- Noncompliance occurrences - None

## SYSTEM SHUTDOWNS

- Details of the Midco I and Midco II Sites' non-GWETS-related shutdowns, and the scheduled and non-scheduled GWETS-related shutdowns are summarized in Table 2.
- The Midco I Site had two non-GWETS-related shutdowns. Power failures occurred on June 2, 2009 at 6:45 a.m. for 35 minutes and on June 24, 2009 at 2:44 p.m. for 1,126 minutes. The Midco II Site had three non-GWETS-related shutdowns. Power failures occurred on June 2, 2009 at 6:45 a.m. for 70 minutes, on June 24, 2009 at 2:44 p.m. for 1,051 minutes, and on June 29, 2009 at 2:24 p.m. for 6 minutes.

## SAMPLING AND TEST RESULTS

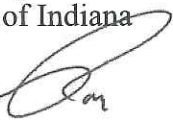
- Analytical data for the May 2009 monthly sampling event are presented in Tables 3 and 4. The data validation report for these samples was received from the data validator on June 17, 2009. In the May 2009 sample, the chloromethane and 1,1,2,2-tetrachloroethane (1,1,2,2-PCA) concentrations in the combined effluent were 29 micrograms per liter (ug/L) and 2.0 ug/L respectively, which are above their respective maximum allowable concentrations (MACs) of 18.9 ug/L and 1.26 ug/L. The chloromethane concentrations were 2.4 ug/L in the Midco I effluent and 39 J ug/L (40 J ug/L field duplicate) in the Midco II effluent. 1,1,2,2-PCA was not detected in the Midco I effluent at a detection limit of 0.50 ug/L and the Midco II effluent at a detection limit of 2.5 ug/L. The unvalidated volatile organic compound (VOC) analytical data for the June 2009 sampling event are presented in Table 5.<sup>1</sup> In the June 2009 sampling event, the chloromethane concentrations in the Midco I effluent (3.4 ug/L), the Midco II effluent (3.8 ug/L), and the combined effluent (3.2 ug/L) were below the MAC of 18.9 ug/L. In the June 2009 sampling event, 1,1,2,2-PCA was not detected at detection limits of 0.5 ug/L, 1.3 ug/L, and 0.84 ug/L in the Midco I effluent, the Midco II effluent, and the combined effluent, respectively. The chloromethane and 1,1,2,2-PCA concentrations in the Midco I effluent, Midco II effluent, and combined effluent from January 2009 through April 2009 have been consistently well below their respective MACs (see Table 6). Based upon the historical data and the June 2009 effluent data, the May 2009 combined effluent chloromethane and 1,1,2,2-PCA concentrations appear to be anomalous.

<sup>1</sup> The validated data for the June 2009 sampling event will be presented in a subsequent monthly report.

August 7, 2009

**MEMORANDUM**

To: Service List (attached)  
USEPA, Underground Injection Control Branch (WU-16J)  
Alan Tenenbaum, U.S. Department of Justice  
Mary Ann Habeeb, State of Indiana

From: Ronald E. Hutchens, P.E. 

Subject: Progress Report No. 207  
July 1 through July 31, 2009  
Remedial Design/Remedial Action  
Midco I and II Sites, Gary, Indiana

**RECEIVED**

AUG 10 2009

UIC BRANCH  
EPA REGION 5**PROGRESS TOWARD IMPLEMENTING THE CONSENT DECREE**

- Continued operation of the Midco I and II Sites' ground water extraction and treatment systems (GWETS) and injection of treated ground water.
- Continued operation of the Midco I soil vapor extraction (SVE) system.
- Continued operation of the Midco II soil vapor extraction/air sparge (SVE/AS) system.
- Collected monthly effluent samples from the Midco I and II Sites' ground water treatment systems (GWTS) on July 21, 2009.
- Receipt of letter from Richard Boice, USEPA to Barbara Coughlin, ENVIRON, dated July 16, 2009, approving the addition of Shealy Environmental Services, Inc. and Columbia Analytical Services, Inc. to the Quality Assurance Project Plan for the Midco Sites and the proposed sample locations, parameters, and schedule for the 2009 annual ground water monitoring event.
- Performance of the Midco I and II annual ground water monitoring event the weeks of July 20 and 27.

**MIDCO DEEP INJECTION WELL OPERATING CONDITIONS**

- The daily maximum injection pressure, sight glass levels, and minimum differential between injection pressure and annulus pressure are summarized in Table 1. The operating flow rates at the Midco I and Midco II Sites' GWTS are presented on Figures 1 and 2, respectively. The daily maximum injection pressures and flow rates are presented on Figure 3. The daily sight glass levels are shown on Figure 4.



- Total volume of treated water injected:

|               | Midco I Site | Midco II Site | Deep Well Site |
|---------------|--------------|---------------|----------------|
| July          | 1,412,335    | 1,260,965     | 2,673,300      |
| Year-to-Date  | 22,941,907   | 34,153,393    | 57,095,300     |
| Total-to-Date | 154,588,792  | 225,250,608   | 379,839,400    |

- Annulus system fluid removals - None
- Annulus system fluid additions - None
- Noncompliance occurrences - None

### SYSTEM SHUTDOWNS

- Details of the Midco I and Midco II Sites' non-GWETS-related shutdowns, and the scheduled and non-scheduled GWETS-related shutdowns are summarized in Table 2.
- The Midco I Site had two non-GWETS-related shutdowns. Power failures occurred on July 2, 2009 at 1:11 p.m. for 173 minutes and on July 8, 2009 at 8:29 a.m. for 116 minutes. The Midco II Site had four non-GWETS-related shutdowns. Power failures occurred on July 1, 2009 at 7:41 a.m. for 12 minutes; on July 2, 2009 at 1:16 p.m. for 184 minutes; on July 8, 2009 at 8:29 a.m. for 111 minutes; and on July 19, 2009 at 1:11 p.m. for 1,114 minutes.

### SAMPLING AND TEST RESULTS

- Analytical data for the June 2009 quarterly sampling event are presented in Tables 3 through 10. The data validation report for these samples was received from the data validator on July 20, 2009.

### PLANS AND PROCEDURES COMPLETED UNDER THE RD/RA PROJECT PLAN

- None during this reporting period.

### ACTIVITIES TO BE CONDUCTED DURING AUGUST 2009

- Continue operation of the Midco I and II Sites' GWETS and injection of treated ground water.
- Continue operation of the Midco I SVE system.
- Continue operation of the Midco II SVE/AS system.

September 08, 2009

**RECEIVED**

SEP 09 2009

UIC BRANCH  
EPA REGION 5**MEMORANDUM**

To: Service List (attached)  
USEPA, Underground Injection Control Branch (WU-16J)  
Alan Tenenbaum, U.S. Department of Justice  
Mary Ann Habeeb, State of Indiana

From: Ronald E. Hutchens, P.E. 

Subject: Progress Report No. 208  
August 1 through August 31, 2009  
Remedial Design/Remedial Action  
Midco I and II Sites, Gary, Indiana

**PROGRESS TOWARD IMPLEMENTING THE CONSENT DECREE**

- Continued operation of the Midco I and II Sites' ground water extraction and treatment systems (GWETS) and injection of treated ground water.
- Continued operation of the Midco I soil vapor extraction (SVE) system.
- Continued operation of the Midco II soil vapor extraction/air sparge (SVE/AS) system.
- Collected monthly effluent samples from the Midco I and II Sites' ground water treatment systems (GWTS) on August 5, 2009.
- Receipt of an email transmittal from Richard Boice, USEPA, to Barbara Coughlin, ENVIRON, dated May 20, 2009, transmitting a letter from IDEM regarding the Midco II Quarterly Operations, Maintenance, Monitoring, and Closure (OMM&C) Progress Report No. 13.

**MIDCO DEEP INJECTION WELL OPERATING CONDITIONS**

- The daily maximum injection pressure, sight glass levels, and minimum differential between injection pressure and annulus pressure are summarized in Table 1. The operating flow rates at the Midco I and Midco II Sites' GWTS are presented on Figures 1 and 2, respectively. The daily maximum injection pressures and flow rates are presented on Figure 3. The daily sight glass levels are shown on Figure 4.

- Total volume of treated water injected:

|               | Midco I Site | Midco II Site | Deep Well Site |
|---------------|--------------|---------------|----------------|
| August        | 1,248,310    | 921,690       | 2,170,000      |
| Year-to-Date  | 24,190,217   | 35,075,083    | 59,265,300     |
| Total-to-Date | 155,837,102  | 226,172,298   | 382,009,400    |

- Annulus system fluid removals - None
- Annulus system fluid additions - None
- Noncompliance occurrences - None

### SYSTEM SHUTDOWNS

- Details of the Midco I and Midco II Sites' non-GWETS-related shutdowns, and the scheduled and non-scheduled GWETS-related shutdowns are summarized in Table 2.
- The Midco I Site had three non-GWETS-related shutdowns. Power failures occurred on August 8, 2009 at 11:58 a.m. for 1,082 minutes, on August 12, 2009 at 6:40 p.m. for 821 minutes, and on August 19, 2009 at 4:06 p.m. for 24 minutes. The Midco II Site had three non-GWETS-related shutdowns. Power failures occurred on August 8, 2009 at 11:58 a.m. for 1,087 minutes, on August 12, 2009 at 6:40 p.m. for 829 minutes, and on August 19, 2009 at 4:06 p.m. for 44 minutes.

### SAMPLING AND TEST RESULTS

- Analytical data for the July and August 2009 monthly sampling events are presented in Tables 3 through 6. The data validation report for these samples was received from the data validator on August 21, 2009 and August 27, 2009, respectively.

### PLANS AND PROCEDURES COMPLETED UNDER THE RD/RA PROJECT PLAN

- None during this reporting period.

### ACTIVITIES TO BE CONDUCTED DURING SEPTEMBER 2009

- Continue operation of the Midco I and II Sites' GWETS and injection of treated ground water.
- Continue operation of the Midco I SVE system.
- Continue operation of the Midco II SVE/AS system.

October 8, 2009

• OCT 13 2009 •

UIC BRANCH  
EPA REGION 5**MEMORANDUM**

To: Service List (attached)  
USEPA, Underground Injection Control Branch (WU-16J)  
Alan Tenenbaum, U.S. Department of Justice  
Mary Ann Habeeb, State of Indiana

From: Ronald E. Hutchens, P.E.

Subject: Progress Report No. 209  
September 1 through September 30, 2009  
Remedial Design/Remedial Action  
Midco I and II Sites, Gary, Indiana

**PROGRESS TOWARD IMPLEMENTING THE CONSENT DECREE**

- Continued operation of the Midco I and II Sites' ground water extraction and treatment systems (GWETS) and injection of treated ground water.
- Continued operation of the Midco I soil vapor extraction (SVE) system.
- Continued operation of the Midco II soil vapor extraction/air sparge (SVE/AS) system.
- Collected quarterly influent and effluent samples from the Midco I and II Sites' ground water treatment systems (GWTS) on September 15, 2009.
- Receipt of an email transmittal from Richard Boice, USEPA, to Barbara Coughlin, ENVIRON, dated September 15, 2009, transmitting a letter from IDEM regarding the Midco I Quarterly Operations, Maintenance, Monitoring, and Closure (OMM&C) Progress Report No. 13.

**MIDCO DEEP INJECTION WELL OPERATING CONDITIONS**

- The daily maximum injection pressure, sight glass levels, and minimum differential between injection pressure and annulus pressure are summarized in Table 1. The operating flow rates at the Midco I and Midco II Sites' GWTS are presented on Figures 1 and 2, respectively. The daily maximum injection pressures and flow rates are presented on Figure 3. The daily sight glass levels are shown on Figure 4.



- Total volume of treated water injected:

|               | Midco I Site | Midco II Site | Deep Well Site |
|---------------|--------------|---------------|----------------|
| September     | 1,134,240    | 1,360,460     | 2,494,700      |
| Year-to-Date  | 25,324,457   | 36,435,543    | 61,760,000     |
| Total-to-Date | 156,971,342  | 227,532,758   | 384,504,100    |

- Annulus system fluid removals - None
- Annulus system fluid additions - None
- Noncompliance occurrences - None

### SYSTEM SHUTDOWNS

- Details of the Midco I and Midco II Sites' non-GWETS-related shutdowns, and the scheduled and non-scheduled GWETS-related shutdowns are summarized in Table 2.
- The Midco I Site had one non-GWETS-related shutdown. A shutdown occurred for the annual mechanical integrity test (MIT) on September 25, 2009 at 7:35 a.m. for 4,825 minutes. The Midco II Site had one non-GWETS-related shutdown. The shutdown occurred for the annual MIT on September 25, 2009 at 7:48 a.m. for 4,827 minutes.

### SAMPLING AND TEST RESULTS

- No validated analytical results were received during the month of September.

### PLANS AND PROCEDURES COMPLETED UNDER THE RD/RA PROJECT PLAN

- None during this reporting period.

### ACTIVITIES TO BE CONDUCTED DURING OCTOBER 2009

- Continue operation of the Midco I and II Sites' GWETS and injection of treated ground water.
- Continue operation of the Midco I SVE system.
- Continue operation of the Midco II SVE/AS system.

### PERCENT OF COMPLETION OF THE RD/RA

- RD/RA Project Plans 100%
- Underground Injection Well Application Package 100%
- Investigation and Monitoring Activities 100%
- Remedial Design of GWETS 100%
- Remedial Action see Table 3

November 6, 2009

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**MEMORANDUM**

To: Service List (attached)  
USEPA, Underground Injection Control Branch (WU-16J)  
Alan Tenenbaum, U.S. Department of Justice  
Mary Ann Habeeb, State of Indiana

From: Ronald E. Hutchens, P.E. 

Subject: Progress Report No. 210  
October 1 through October 31, 2009  
Remedial Design/Remedial Action  
Midco I and II Sites, Gary, Indiana

**PROGRESS TOWARD IMPLEMENTING THE CONSENT DECREE**

- Continued operation of the Midco I and II Sites' ground water extraction and treatment systems (GWETS) and injection of treated ground water.
- Continued operation of the Midco I soil vapor extraction (SVE) system.
- Continued operation of the Midco II soil vapor extraction/air sparge (SVE/AS) system.
- Collected the monthly effluent samples from the Midco I and II Sites' ground water treatment systems (GWTS) on October 22, 2009.
- Submittal of the Midco I Quarterly Operations, Maintenance, Monitoring, and Closure (OMM&C) Progress Report No. 14 to the USEPA on October 28, 2009.

**MIDCO DEEP INJECTION WELL OPERATING CONDITIONS**


- The daily maximum injection pressure, sight glass levels, and minimum differential between injection pressure and annulus pressure are summarized in Table 1. The operating flow rates at the Midco I and Midco II Sites' GWTS are presented on Figures 1 and 2, respectively. The daily maximum injection pressures and flow rates are presented on Figure 3. The daily sight glass levels are shown on Figure 4.
- Total volume of treated water injected:

|               | Midco I Site | Midco II Site | Deep Well Site |
|---------------|--------------|---------------|----------------|
| October       | 1,413,865    | 1,017,735     | 2,431,600      |
| Year-to-Date  | 26,738,322   | 37,453,278    | 64,191,600     |
| Total-to-Date | 158,385,207  | 228,550,493   | 386,935,700    |

December 8, 2009

**MEMORANDUM**

To: Service List (attached)  
USEPA, Underground Injection Control Branch (WU-16J)  
Alan Tenenbaum, U.S. Department of Justice  
Mary Ann Habeeb, State of Indiana

From: Ronald E. Hutchens, P.E. 

Subject: Progress Report No. 211  
November 1 through November 30, 2009  
Remedial Design/Remedial Action  
Midco I and II Sites, Gary, Indiana

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UIC BRANCH  
EPA REGION 5**PROGRESS TOWARD IMPLEMENTING THE CONSENT DECREE**

- Continued operation of the Midco I and II Sites' ground water extraction and treatment systems (GWETS) and injection of treated ground water.
- Continued operation of the Midco I soil vapor extraction (SVE) system.
- Continued operation of the Midco II soil vapor extraction/air sparge (SVE/AS) system.
- Collected the monthly effluent samples from the Midco I and II Sites' ground water treatment systems (GWTS) on November 11, 2009.
- Receipt of an email transmittal from Richard Boice, USEPA, to Barbara Coughlin, ENVIRON, dated November 5, 2009, transmitting a letter from IDEM regarding the Midco II Quarterly Operations, Maintenance, Monitoring, and Closure (OMM&C) Progress Report No. 14.

**MIDCO DEEP INJECTION WELL OPERATING CONDITIONS**

- The daily maximum injection pressure, sight glass levels, and minimum differential between injection pressure and annulus pressure are summarized in Table 1. The operating flow rates at the Midco I and Midco II Sites' GWTS are presented on Figures 1 and 2, respectively. The daily maximum injection pressures and flow rates are presented on Figure 3. The daily sight glass levels are shown on Figure 4.

- Total volume of treated water injected:

|               | Midco I Site | Midco II Site | Deep Well Site |
|---------------|--------------|---------------|----------------|
| November      | 1,298,274    | 790,126       | 2,088,400      |
| Year-to-Date  | 28,036,596   | 38,243,404    | 66,280,000     |
| Total-to-Date | 159,683,481  | 229,340,619   | 389,024,100    |

- Annulus system fluid removals - None
- Annulus system fluid additions - None
- Noncompliance occurrences - None

#### SYSTEM SHUTDOWNS

- Details of the Midco I and Midco II Sites' non-GWETS-related shutdowns, and the scheduled and non-scheduled GWETS-related shutdowns are summarized in Table 2.
- The Midco I and Midco II Sites had no non-GWETS-related shutdowns.

#### SAMPLING AND TEST RESULTS

- Analytical data for the September 2009 quarterly and October 2009 monthly sampling events are presented in Tables 3 through 12. The data validation reports for the September 2009 and October 2009 samples were received from the data validator on November 4 and 16, 2009, respectively.

#### PLANS AND PROCEDURES COMPLETED UNDER THE RD/RA PROJECT PLAN

- None during this reporting period.

#### ACTIVITIES TO BE CONDUCTED DURING DECEMBER 2009

- Continue operation of the Midco I and II Sites' GWETS and injection of treated ground water.
- Continue operation of the Midco I SVE system.
- Continue operation of the Midco II SVE/AS system.

#### PERCENT OF COMPLETION OF THE RD/RA

- RD/RA Project Plans 100%
- Underground Injection Well Application Package 100%
- Investigation and Monitoring Activities 100%
- Remedial Design of GWETS 100%
- Remedial Action see Table 13



January 7, 2010

**MEMORANDUM**

To: Service List (attached)  
USEPA, Underground Injection Control Branch (WU-16J)  
Alan Tenenbaum, U.S. Department of Justice  
Mary Ann Habeeb, State of Indiana

From: Ronald E. Hutchens, P.E. 

Subject: Progress Report No. 212  
December 1 through December 31, 2009  
Remedial Design/Remedial Action  
Midco I and II Sites, Gary, Indiana

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UIC BRANCH  
EPA REGION 5**PROGRESS TOWARD IMPLEMENTING THE CONSENT DECREE**

- Continued operation of the Midco I and II Sites' ground water extraction and treatment systems (GWETS) and injection of treated ground water.
- Continued operation of the Midco I soil vapor extraction (SVE) system.
- Continued operation of the Midco II soil vapor extraction/air sparge (SVE/AS) system.
- Collected the quarterly influent and effluent samples from the Midco I and II Sites' ground water treatment systems (GWTS) on December 9, 2009.

**MIDCO DEEP INJECTION WELL OPERATING CONDITIONS**

- The daily maximum injection pressure, sight glass levels, and minimum differential between injection pressure and annulus pressure are summarized in Table 1. The operating flow rates at the Midco I and Midco II Sites' GWTS are presented on Figures 1 and 2, respectively. The daily maximum injection pressures and flow rates are presented on Figure 3. The daily sight glass levels are shown on Figure 4.
- Total volume of treated water injected:

|               | Midco I Site | Midco II Site | Deep Well Site |
|---------------|--------------|---------------|----------------|
| December      | 1,353,058    | 936,842       | 2,289,900      |
| Year-to-Date  | 29,389,654   | 39,180,246    | 68,569,900     |
| Total-to-Date | 161,036,539  | 230,277,461   | 391,314,000    |